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## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Georges et al.	Art Unit:	1645
Serial No.:	10/736,889	Examiner:	TBA
Date Filed:	December 15, 2003	Conf. No.	TBA
Docket Nos.:	AUR-013US and 112418.147	Cust. No.:	23483
Title:	VIMENTIN DIRECTED DIAGNOSTICS AND THERAPEUTICS FOR MULTIDRUG RESISTANT NEOPLASTIC DISEASE		

**CERTIFICATION UNDER 37 C.F.R. § 1.10**

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**INFORMATION DISCLOSURE STATEMENT**

Dear Sir:

Applicants submit herewith the references on the attached Form PTO-1449. Copies of the cited U.S. patent references, U.S. published application references and pending U.S. application references are not enclosed as the Applicants believe that they are available to the Examiner via the PTO's internal database. Copies of the aforementioned references can be provided to the Examiner upon his/her request. Copies of all other cited references are enclosed herewith.

This Information Disclosure Statement is being filed under 37 C.F.R. § 1.97 (b) (3), before the mailing of a first Office Action on the merits, therefore no fee is due.

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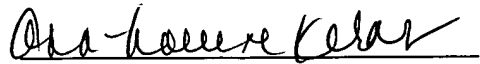
present to the Office relevant facts and law regarding the significance of such documents to the patentability of the claimed invention.

It is respectfully requested that the Examiner initial and return a copy of the attached Form PTO-1449 with the next Patent Office communication.

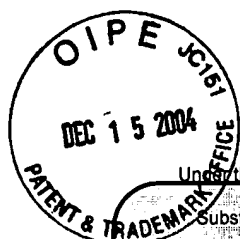
No fees are believed to be due in connection with this submission; however, please charge any fees that might be due to Deposit Account Number 08-0219. If there are any questions, the Examiner is invited to call the undersigned at the telephone number indicated below.

Respectfully submitted,

Date: 12/15/04

  
Ann-Louise Kerner, Ph.D.  
Reg. No. 33,523

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Sheet 1 of 7

**Complete if Known**

Application Number	10/736,889
Filing Date	12/15/2003
First Named Inventor	Georges et al.
Art Unit	1645
Examiner Name	TBA
Attorney Docket Number	112418.147/AUR-013

**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
		US- 4,720,386	01/19/1988	McColleston	
		US- 5,194,384	03/16/1993	Bystryn	
		US- 5,407,653	04/18/1995	Piwnica-Worms	
		US- 6,338,853 B1	01/15/2002	Bystryn	
		US- 6,352,996 B1	03/05/2002	Cao et al.	
		US- 6,406,689 B1	06/18/2002	Falkenberg et al.	
		US- 6,417,336	07/09/2002	Morishima et al.	
		US- 6,476,193	11/05/2002	Nandabalan et al.	
		US- 6,511,676 B1	01/28/2003	Boulikas	
		US- 6,562,347 B1	05/13/2003	Kwak et al.	
		US- 6,572,856 B1	06/03/2003	Taylor et al.	
		US- 6,593,087 B2	07/15/2003	Prichard et al.	
		US- 6,623,923 B1	09/23/2003	Xu et al.	
		US- 6,630,327 B1	10/07/2003	Mechetner et al.	
		US- 6,657,048 B2	12/02/2003	Young et al.	
		US- 20020061316A1	05/23/2002	Srivastava	
		US- 20020198139A1	12/26/2002	Deutschman et al.	
		US- 20030012793A1	01/16/2003	Srivastava et al.	

**FOREIGN PATENT DOCUMENTS**

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		US- 20030012794A1	01/16/2003	Srivastava et al.	
		US- 20030031661A1	02/13/2003	Graner et al.	
		US- 20030087412A1	05/08/2003	Nandabalan et al.	
		US- 20030157081A1	08/21/2003	Bonini et al.	
		US- 20030165519A1	09/04/2003	Srivastava	
		US- 20030180721A1	09/25/2003	Witkin	
		US- 10/801,988	03/15/2004	Georges et al.	
		US- 10/736,889	12/15/2003	Georges et al.	
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		US- 5,801,154	09/01/1998	Frank et al.	
		US- 2002110912A1	08/15/2002	Jatinder et al.	
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		WO 02/071061A	09/12/2002	Gabor et al.		
		WO 03/008542A	01/30/2003	Scherf et al.		
		EP 0813872A	12/29/1997	Kureha Chemical		

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		ABOU-JAWDE et al., An Overview of Targeted Treatments in Cancer, Clinical Therapeutics, Vol. 25, No. 8, 2003, pp. 2121-2137	/
		ALQAWI and GEORGES, The multidrug resistance protein ABCC1 drug-binding domains show selective sensitivity to mild detergents, Biochemical and Biophysical Research Communications 303, 2003, pp. 1135-1141	/
		BARRETO et al., Stress-induced release of HSC70 from human tumors, Cellular Immunology 222, 2003, pp. 97-104	/
		CHENG et al., Retaining of the Assembly Capability of Vimentin Phosphorylated by Mitogen-Activated Protein Kinase-Activated Protein Kinase-2, Journal of Cellular Biochemistry, 89, 2003, pp. 589-602	/
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		DI PIETRO et al., Modulation by flavonoids of cell multidrug resistance mediated by P-glycoprotein and related ABC transporters, Cell. Mol. Life Sci. 59, 2002, pp. 307-322	/
		DU et al., Dual Requirement for Rho and Protein Kinase C in Direct Activation of Phospholipase D1 Through G Protein-coupled Receptor Signaling, Molecular Biology of the Cell, Vol. 11, 2000, pp. 4359-4368	/
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		FEIG, Designer Drugs: New Directed Therapies for Cancer, International Journal of Hematology Suppl. II, 76, 2002, pp. 281-283	/

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		FUJITA et al., High Molecular Weight Vimentin Complex Is Formed after Proteolytic Digestion of Vimentin by Caspase-3: Detection by Sera of Patients with Interstitial Pneumonia, Microbiol. Immunol., 47(6), 2003, pp. 447-451	✓
		GARNETT, Targeted drug conjugates: principles and progress, Advanced Drug Delivery Reviews, 53, 2001, pp. 171-216	✓
		GOTO et al., Phosphorylation and reorganization of vimentin by p21-activated kinase (PAK), Genes to Cells, 7, 2002, pp. 91-97	✓
		GRATAMA et al., Flow Cytometric Quantitation of Immunofluorescence Intensity: Problems and Perspectives, Cytometry 33, 1998, pp. 166-178	✓
		HEIDENTHAL et al., The Binding in Vitro of Modified LDL to the Intermediate Filament Protein Vimentin, Biochemical and Biophysical Research Communications, 267, 2000, pp. 49-53	✓
		HERRMANN and AEBl, Intermediate filaments and their associates: multi-talented structural elements specifying cytoarchitecture and cytodynamics, Current Opinion in Cell Biology, 12, 2000, pp. 79-90	✓
		HUBERT et al., STEAP: A prostate-specific cell-surface antigen highly expressed in human prostate tumors, PNAS, Vol. 96, No. 25, 1999, pp. 14523-14528	✓
		IQBAL and LENZ, Targeted Therapy and Pharmacogenomic Programs, Cancer Supplement, Vol. 97, No. 8, 2003, pp. 2076-2082	✓
		KIM et al., Multidrug Resistance-Associated Protein (MRP) is expressed in osteosarcoma but is not a significant mechanism of drug resistance, 47th Ann. Mtg., Orthopaedic Research Society, 2001, p. 0855	✓
		KIM, Targeted therapies for the treatment of cancer, The American Journal of Surgery, 186, 2003, pp. 264-268	✓

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		KOWN et al., In Vivo Imaging of Acute Cardiac Rejection in Human Patients Using 99m Technetium Labeled Annexin V, American Journal of Transplantation, 1, 2001, pp. 270-277 ✓	
		KREITMAN and PASTAN, Immunotoxins for targeted cancer therapy, Advanced Drug Delivery Reviews, 31, 1998, pp. 53-88 ✓	
		LING, Multidrug resistance: molecular mechanisms and clinical relevance, Cancer Chemother. Pharmacol., 40 Suppl., 1997, pp. S3-S8 ✓	
		MESCHINI et al., Intracellular P-glycoprotein expression is associated with the intrinsic multidrug resistance phenotype in human colon adenocarcinoma cells, Int. J. Cancer, 87, 2000, pp. 615-628 ✓	
		MOR-VAKNIN et al., Vimentin is secreted by activated macrophages, Nature Cell Biology, Vol. 5, 2003, pp. 59-63 ✓	
		PARK, Tumor-directed Targeting of Liposomes, Bioscience Reports., Vol. 22, No. 2, 2002, pp. 267-281 ✓	
		PATTERSON et al., Reduced Numatrin/B23/Nucleophosmin Labeling in Apoptotic Jurkat T-lymphoblasts, The Journal of Biological Chemistry, Vol. 270, No. 16, 1995, pp. 9429-9436 ✓	
		ROTS et al., Targeted cancer gene therapy: the flexibility of adenoviral gene therapy vectors, Journal of Controlled Release, 87, 2003, pp. 159-165 ✓	
		ROWLINSON-BUSZA and EPENETOS, Targeted delivery of biologic and other antineoplastic agents, Current Opinion in Oncology, 4, 1992, 1142-1148 ✓	
		SCHROEIJERS et al., the Mr 193,000 Vault Protein Is Up-Regulated in Multidrug-resistant Cancer Cell Lines, Cancer Research, 60, 2000, pp. 1104-1110 ✓	

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		WEHNER et al., Expression levels of hsc70 and hsp60 are developmentally regulated during B-cell maturation and not associated to childhood c-ALL at presentation or relapse, Eur. J. Haematol., 71, 2003, pp. 100-108	✓
		STEINERT et al., A High Molecular Weight Intermediate Filament-associated Protein in BHK-21 Cells Is Nestin, a Type VI Intermediate Filament Protein, The Journal of Biological Chemistry, Vol. 274, No. 14, 1999, pp. 9881-9890	✓
		STRELKOV et al., Molecular architecture of intermediate filaments, BioEssays, 25, 2003, pp. 243-251	✓
		TRAIL et al., Monoclonal antibody drug immunoconjugates for targeted treatment of cancer, Cancer Immunol. Immunother., 52, 2003, pp. 328-337	✓
		TREIB and KOTZ, Proteins expressed in osteosarcoma and serum levels as prognostic factors, The International Journal of Biochemistry & Cell Biology, 33, 2001, pp. 11-17	✓
		TUROWSKI et al., Vimentin Dephosphorylation by Protein Phosphatase 2A Is Modulated by the Targeting Subunit B55, Molecular Biology of the Cell, Vol. 10, 1999, pp. 1997-2015	✓
		WANG and LIU, Targeting Strategies in Cancer Gene Therapy, Acta Biochimica et Biophysica Sinica, 35(4), 2003, pp. 311-316	✓
		WU et al., High-resolution microPET imaging of carcino-embryonic antigen-positive xenografts by using a copper-64-labeled engineered antibody fragment, PNAS, Vol. 97, No. 15, 2000, pp. 8495-8500	✓
		YOKOTA et al., Rapid tumor penetration of a single-chain Fv and comparison with other immunoglobulin forms, Cancer Research, Vol. 52, Issue 12, 1992, pp. 3402-3408	✓
		YASUAKI et al., 70 kDa heat shock cognate protein is a transformation-associated antigen and a possible target for the host's anti-tumor immunity, Journal of Immunology, Vol. 151, No. 10, 1993, pp. 5516-5524	

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Sheet 7 of 7	Attorney Docket Number	112418.147/AUR-013	

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		MULTHOFF et al., A Stress-inducible 75-kDa Heat-shock Protein (HSP72) Is Expressed on the Surface of Human Tumor Cells, But Not on Normal Cells, International Journal of Cancer 1995 United States, Vol. 61, no. 2, 1995, pp. 272-279	
		STRIK et al., Heat Shock Protein Expression in Human Gliomas, Anticancer Research 2000 Nov.-Dec. pp. 4457-4462	
		KIANG, et al., Heat Shock Protein 70 kDa, Molecular Biology, Biochemistry, and Physiology, Pharmacology and Therapeutics, Vol. 80, no. 2, November 1998, pp. 183-201	
		VOLM, Manfred, Multidrug Resistance and Its Reversal, Anticancer Research, Vol. 18, no. 4C, July 1998, pp. 2905-2917	

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